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HYBRID GPS/DATA LINK UNIT FOR RAPID, PRECISE
AND ROBUST POSITION DETERMINATION

Abstract Of The Disclosure

A global positioning system (GPS) in which a plurality earth orbiting satellites transmit position information to mobile radio stations on earth, is provided with a separate source satellite position data broadcast digital channels and one or more dial-up service separate communication channels (selected from a data link supported by terrestrial cellular telephone and other radio packet data services) for assisting the mobile radio station to access position information from the satellites. A controller is coupled to the mobile radio station for connecting to the separate communication channel for extricating the satellite position data via separate communication channel. The controller includes a microprocessor for processing the satellite position data to enable the mobile radio station to rapidly locate and access position information from said earth orbiting satellite. A unique system for processing the data is disclosed.